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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/625,295	07/22/2003	Gary D'Angelo	H0004409- -3114	7906

128 7590 04/05/2005

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EXAMINER

KERSHTEYN, IGOR

ART UNIT PAPER NUMBER

3745

DATE MAILED: 04/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

57P

Office Action Summary	Application No.	Applicant(s)	
	10/625,295	D'ANGELO ET AL.	
	Examiner	Art Unit	
	Igor Kershteyn	3745	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-34 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 11-34 is/are allowed.
- 6) ☒ Claim(s) 1-6,8,10 is/are rejected.
- 7) ☒ Claim(s) 7 and 9 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 May 2004 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>7/22/03, 12/17/04</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION***Drawings***

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: 22, 24, 55, 110, 120, 140, 150 in figures 2 and 3. Figures 5 and 6 do not include all reference signs. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3-6, 8, and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Hollcroft et al. (3,521,661).

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In figures 1-4, Hollcroft et al. teach a bleed valve 10 for use in a gas turbine engine comprising: a housing 16,24 with an inlet 12 and an outlet 14 said housing 16,24 being hollow with an inner and outer surface; said housing 16,24 further defining an interior region and an exterior region; a shaft guide 74 fixed to the interior surface of said housing; a shaft 48 slidably mounted in said shaft guide 74; a poppet 26 attached to said shaft 48, said poppet 26 having a seat (the very end portion – not numbered) to contact the interior surface of said housing; a stationary piston 66 positioned in the interior region of said housing, said stationary piston 66 in contact with said poppet 26 whereby said stationary piston 66 and said poppet 26 define a fluid chamber 70; sealing rings 68 located between said poppet 26 and said stationary piston 66, a biasing means 54,56 positioned in the interior of said chamber 70, and a fluid inlet 98 providing fluid communication between said chamber 70 and the exterior region of said housing.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hollcroft et al. (3,521,661) in view of Greenland et al. (3,655,134).

Hollcroft et al. teach all the claimed subject matter except that they don't teach the sealing rings comprise carbon piston rings.

Greenland et al. in figure 4, teaches a pressure regulating valve 38 for use in a gas turbine engine having carbon piston ring 67.

Since Hollcroft et al. and Greenland et al. are analogous art because they are from the same field of endeavor, that is the gas turbine engine art, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to modify the valve of Hollcroft et al. with the carbon piston ring as taught by Greenland et al. for the purpose of providing the valve with high temperature resistant seal which is capable of use in high speed, temperature, and pressure applications.

Allowable Subject Matter

Claims 11-34 are allowed.

Claims 7 and 9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Prior Art

Prior art made of record but not relied upon is considered pertinent to Applicant's disclosure and consist of five patents.

Mrazek (2,919,714) is cited to show a valve having a poppet, a stationary piston, a spring, and a sealing ring but fails to show a shaft.

Lambert (2,950,732) is cited to show a valve having a poppet, a shaft a stationary piston, a spring, and a sealing ring but fails to show a stationary piston.

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Sime (3,297,047) is cited to show a valve having a poppet, a shaft a stationary piston, a spring, and a sealing ring but fails to show a stationary piston.

Sime (3,566,907) is cited to show a valve having a poppet, a shaft a stationary piston, a spring, and a sealing ring but fails to show a stationary piston.

Nelson (4,610,265) is cited to show a valve having a poppet, a shaft a stationary piston, a spring, and a sealing ring but fails to show a stationary piston.


Contact information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Kershteyn whose telephone number is **(571)272-4817**. The examiner can be reached on Monday-Friday from 8:00 a.m. to 4:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Look, can be reached on **(571)272-4820**. The fax number is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308 0861.

IK
March 28, 2005



Igor Kershteyn
Patent examiner.
Art Unit 3745